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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/529,397	03/28/2005	Soren Flygenromg Christensen	CHRISTENSEN12	6716
1444	7590	11/20/2007	EXAMINER	
BROWDY AND NEIMARK, P.L.L.C.			STEELE, AMBER D	
624 NINTH STREET, NW				
SUITE 300				
WASHINGTON, DC 20001-5303			ART UNIT	PAPER NUMBER
			1639	
			MAIL DATE	DELIVERY MODE
			11/20/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/529,397	CHRISTENSEN ET AL.
	Examiner	Art Unit
	Amber D. Steele	1639

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-102 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) _____ is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) 1-102 are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some *
 - c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
- 5) Notice of Informal Patent Application
- 6) Other: _____.

DETAILED ACTION

Status of the Claims

1. The preliminary amendment received on January 27, 2006 amended claims 1-32, 38, 40-43, 46, 48-49, 53, 55-62, 64-75, 77, 79, 81, 83-86, 91, 93, and 96-101.

Claims 1-102 are currently pending and under consideration.

Election/Restrictions

2. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-31, drawn to a immobilized beaded polymer matrix (i.e. bead array).

Group II, claim(s) 32-42, drawn to a composition (i.e. bead library).

Group III, claim(s) 43-48, drawn to method for detection.

Group IV, claim(s) 49-52, drawn to a method of making a bead array.

Group V, claim(s) 53-78, drawn to a method for distance matrix determination.

Group VI, claim(s) 79-82 and 84, drawn to a method for identification of a single bead.

Group VII, claim(s) 83, drawn to a method for identification of three or more beads.

Group VIII, claim(s) 85, drawn to a method for recording.

Group IX, claim(s) 86-91, drawn to a method for identifying a chemical compound.

Group X, claim(s) 93-102, drawn to a device.

3. The inventions listed as Groups I-X do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the common technical feature for Groups I-IX is a bead which is known in the art and Group X (i.e. device) does not share a common technical feature with Groups I-IX (i.e. the reagents utilized in the device are not considered a part of the device).

Specifically, Frankel (U.S. Patent 6,506,342; effective filing date of June 19, 1997) teach bead libraries, bead arrays, and devices for monitoring the beads wherein each bead has a unique fluorescence emission (please refer to the entire specification particularly the abstract; columns 1-5, 8-9, 11-12, 17, 22, and 24). Therefore, beads and bead arrays are known in the art.

4. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

For Group I:

- a. a species of dispersion (claims 3-4 and 12)
- b. a species of particle shape (claims 5-6 and 10)
- c. a species of particle number (claims 7-9)
- d. a species of particle size (claims 11 and 13-16)
- e. a species of marker (claims 17-20 and 27)
- f. a species of detection (claims 21-23 and 27-31)

g. a species of polymer (claims 24-26)

For Group II:

a. a species of bead number (claims 33-37)

For Group III:

a. a species of detection (claims 45-48)

For Group IV:

a. a species of polymerization reaction (claims 50-52)

For Group V:

a. a species of detection (claims 55-56, 58-61, and 67)

b. a species of speed of detection (claims 65-66 and 68)

c. a species of exposure/response time (claims 69-71)

For Group VI:

a. a species of geometrical figures (claims 80 and 82)

For Group IX:

a. a species of assay (claims 87-90)

5. Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

6. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

7. The claims are deemed to correspond to the species listed above in the following manner: For Group I: claims 3-31; for Group II: claims 33-37; for Group III: claims 45-48; for Group IV: claims 50-52; for Group V: claims 55-56, 58-61, and 65-71; for Group VI: claims 80 and 82; and for Group IX: claims 87-90.

8. The following claim(s) are generic: For Group I: claim 1; for Group II: claim 32; for Group III: claim 43; for Group IV: claim 49; for Group V: claim 53; for Group VI: claim 79; and for Group IX: claim 86.

9. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special

technical features for the following reasons: the species are structurally and/or functionally different.

10. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

11. The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

12. Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

13. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the

application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Future Communications

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amber D. Steele whose telephone number is 571-272-5538. The examiner can normally be reached on Monday through Friday 9:00AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doug Schultz can be reached on 571-272-0763. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Amber D. Steele/
Patent Examiner
AU1639

November 13, 2007